

[FIG.1]

BASEBAND AMPLITUDE MODULATION SIGNAL 101

102 HIGH-FREQUENCY POWER AMPLIFIER

PHASE MODULATION HIGH-FREQUENCY SIGNAL 103

5 TRANSMIT OUTPUT SIGNAL 104

105 POWER SUPPLY VOLTAGE CONTROL SECTION

[FIG.2]

122 QUANTIZER

10 123 LOW PASS FILTER

124 ATTENUATOR

125 COMPENSATOR

[FIG.3]

15 123 LOW PASS FILTER

124 ATTENUATOR

125 COMPENSATOR

126 POLYPHASE QUANTIZER

20 [FIG.4]

QUANTIZER (1)

...

QUANTIZER (N)

128 COMBINER

25

[FIG.5A]

COMBINER OUTPUT

[FIG.5B]

QUANTIZER (1) OUTPUT .

...

5 [FIG.6]

133 INTEGRATOR

134 QUANTIZER

135 LOW PASS FILTER

136 ATTENUATOR

10 137 ATTENUATOR

138 PHASE COMPENSATOR

[FIG.7]

BASEBAND AMPLITUDE MODULATION SIGNAL 101

15 200: POWER SUPPLY VOLTAGE CONTROL SECTION

12 INTEGRATOR

13 QUANTIZER

14 LOW PASS FILTER

15 COMPENSATOR

20 16 ATTENUATOR

BASEBAND MODULATION SIGNAL 100

3 AMPLITUDE/PHASE SEPARATION SECTION

BASEBAND PHASE MODULATION SIGNAL 102

4 FREQUENCY SYNTHESIZER

25 PHASE MODULATION HIGH-FREQUENCY SIGNAL 103

DELTA SIGMA MODULATION SIGNAL S1

2 HIGH-FREQUENCY POWER AMPLIFIER

TRANSMIT OUTPUT SIGNAL S2

[FIG.8]

BASEBAND AMPLITUDE MODULATION SIGNAL 101

5 300: POWER SUPPLY VOLTAGE CONTROL SECTION

12 INTEGRATOR

13 QUANTIZER

14 LOW PASS FILTER

15 COMPENSATOR

10 16 ATTENUATOR

DELTA SIGMA MODULATION SIGNAL S3

[FIG.9]

BASEBAND AMPLITUDE MODULATION SIGNAL 101

15 400: POWER SUPPLY VOLTAGE CONTROL SECTION

12 INTEGRATOR

13 QUANTIZER

14 LOW PASS FILTER

15 COMPENSATOR

20 16 ATTENUATOR

17 ENVELOPE DETECTOR

PHASE MODULATION HIGH-FREQUENCY SIGNAL 103

2 HIGH-FREQUENCY POWER AMPLIFIER

TRANSMIT OUTPUT SIGNAL S2

25

[FIG.10]

BASEBAND AMPLITUDE MODULATION SIGNAL 101

500: POWER SUPPLY VOLTAGE CONTROL SECTION

12 INTEGRATOR

13 QUANTIZER

14 LOW PASS FILTER

5 15 COMPENSATOR

16 ATTENUATOR

18 AD CONVERTER

PHASE MODULATION HIGH-FREQUENCY SIGNAL 103

2 HIGH-FREQUENCY POWER AMPLIFIER

10 TRANSMIT OUTPUT SIGNAL S2

[FIG.11]

BASEBAND AMPLITUDE MODULATION SIGNAL 101

600: POWER SUPPLY VOLTAGE CONTROL SECTION

15 12 INTEGRATOR

19 POLYPHASE QUANTIZER

14 LOW PASS FILTER

15 COMPENSATOR

16 ATTENUATOR

20 PHASE MODULATION HIGH-FREQUENCY SIGNAL 103

2 HIGH-FREQUENCY POWER AMPLIFIER

TRANSMIT OUTPUT SIGNAL S2

[FIG.12]

25 BASEBAND AMPLITUDE MODULATION SIGNAL 101

FIXED VOLTAGE  $V_{fix}$

MODULATION MODE SWITCHING CONTROL SIGNAL (AMPLITUDE

MODULATION PRESENCE/ABSENCE) S7

700 SELECTION CIRCUIT

200 (300, 400, 500, 600, 800) POWER SUPPLY VOLTAGE CONTROL  
SECTION

5 PHASE MODULATION HIGH-FREQUENCY SIGNAL 103

2 HIGH-FREQUENCY POWER AMPLIFIER

TRANSMIT OUTPUT SIGNAL S2

[FIG.13]

10 BASEBAND AMPLITUDE MODULATION SIGNAL 101

FIXED VOLTAGE  $V_{fix}$

OPERATING MODE SWITCHING CONTROL SIGNAL

(SWITCHING/LINEAR) S9

700 SELECTION CIRCUIT

15 200 (300, 400, 500, 600, 900) POWER SUPPLY VOLTAGE CONTROL  
SECTION

PHASE MODULATION HIGH-FREQUENCY SIGNAL 103

800 HIGH-FREQUENCY POWER AMPLIFIER (DUAL-MODE)

TRANSMIT OUTPUT SIGNAL S2

20

[FIG.14]

BASEBAND AMPLITUDE MODULATION SIGNAL 101

GAIN CONTROL SIGNAL S10

900: POWER SUPPLY VOLTAGE CONTROL SECTION

25 12 INTEGRATOR

901 VARIABLE-OUTPUT QUANTIZER

14 LOW PASS FILTER

15 COMPENSATOR  
902 VARIABLE ATTENUATOR  
PHASE MODULATION HIGH-FREQUENCY SIGNAL 103  
2 HIGH-FREQUENCY POWER AMPLIFIER  
5 TRANSMIT OUTPUT SIGNAL S2

[FIG.15]

BASEBAND AMPLITUDE MODULATION SIGNAL 101  
GAIN CONTROL SIGNAL S10  
10 900: POWER SUPPLY VOLTAGE CONTROL SECTION  
12 INTEGRATOR  
901: VARIABLE-OUTPUT QUANTIZER  
POWER SUPPLY  
903 QUANTIZER  
15 904 SWITCH DRIVER  
906 POWER SUPPLY REGULATOR  
14 LOW PASS FILTER  
15 COMPENSATOR  
902 VARIABLE ATTENUATOR  
20 PHASE MODULATION HIGH-FREQUENCY SIGNAL 103  
2 HIGH-FREQUENCY POWER AMPLIFIER  
TRANSMIT OUTPUT SIGNAL S2